Surface Mount Glass Passivated Bridge Rectifier

Voltage	1000 V	Current	2A

ABS

Features

- Glass passivated chip junction
- Ideally suited for automatic assembly
- High Surge Current Capability
- Designed for Surface Mount Application
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : ABS Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0031 ounces, 0.088 grams

Application

- Quick Charger (<20W)
- General power adapter (<30W)
- In-door Led lighting, Bulb/ PAR lighting
- Netcom power (<35W)
- Smart speaker adapter(<20W)

Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	1000	V
Maximum RMS Voltage		V_{RMS}	700	V
Maximum DC Blocking Voltage		V_{DC}	1000	V
Maximum Average Forward Current		$I_{F(AV)}$	2	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T_A = 25 °C @ T_A = 125 °C	I_{FSM}	70 56	A
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T_A = 25 °C @ T_A = 125 °C	I_{FSM}	140 112	A
I^2t rating for fusing (t = 8.3ms)		I^2t	20.3	A^2S
Typical Junction Capacitance Measured at 1 MHZ And Applied V_R = 4 V		C_J	25	pF
Typical Thermal Resistance	(Note 1) (Note 2)	$R_{\theta JA}$ $R_{\theta JC}$	60 16	°C/W
Operating Junction Temperature Range		T_J	-55~150	°C
Storage Temperature Range		T_{STG}	-55~150	°C

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	I_F = 2 A, T_J = 25 °C	-	-	1.1	V
Reverse Current	I_R	V_R = 1000 V, T_J = 25 °C	-	-	5	uA
		V_R = 1000 V, T_J = 125 °C	-	-	100	

NOTES :

1. Mounted on a FR4 PCB standard pad
2. Mounted on glass epoxy PC board with 4x1.5x1.5(3.81x3.81 cm) copper pad area

TYPICAL CHARACTERISTIC CURVES

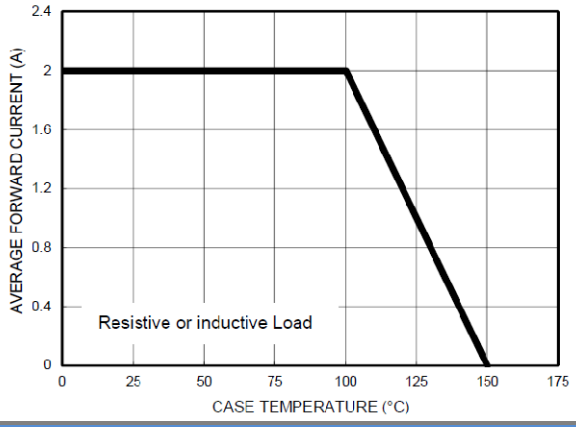


Fig.1 Forward Current Derating Curve

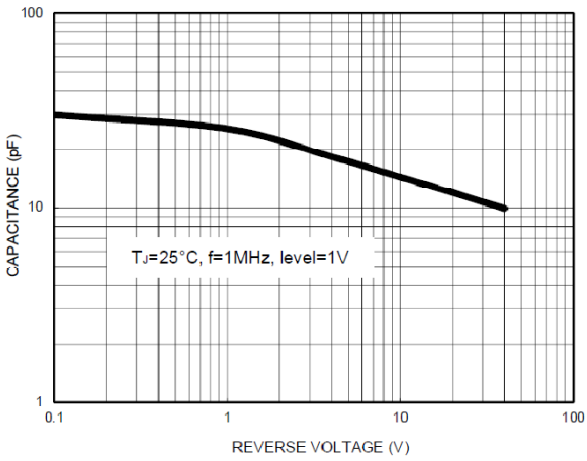


Fig.2 Typical Junction Capacitance

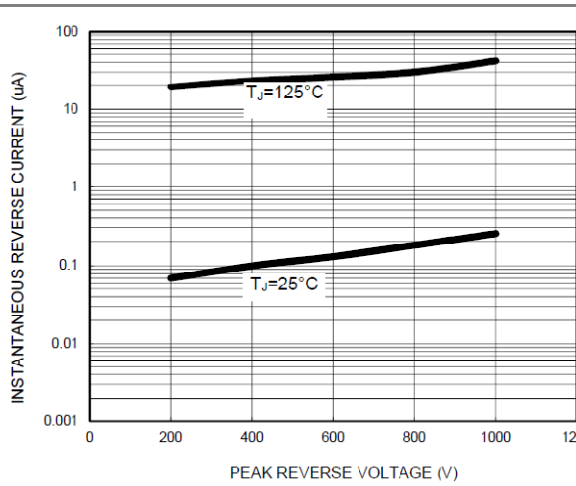


Fig.3 Typical Reverse Characteristics

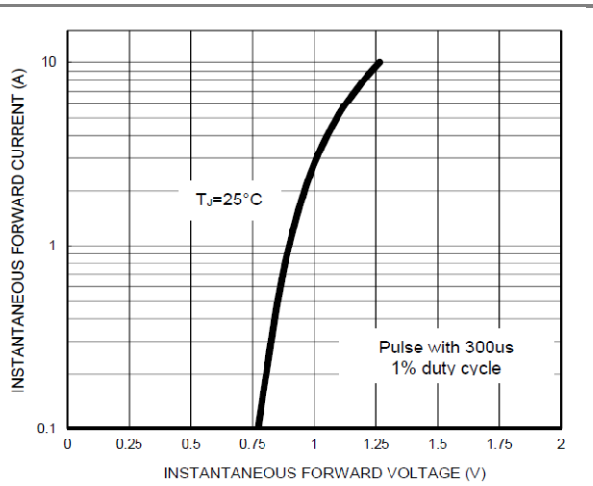


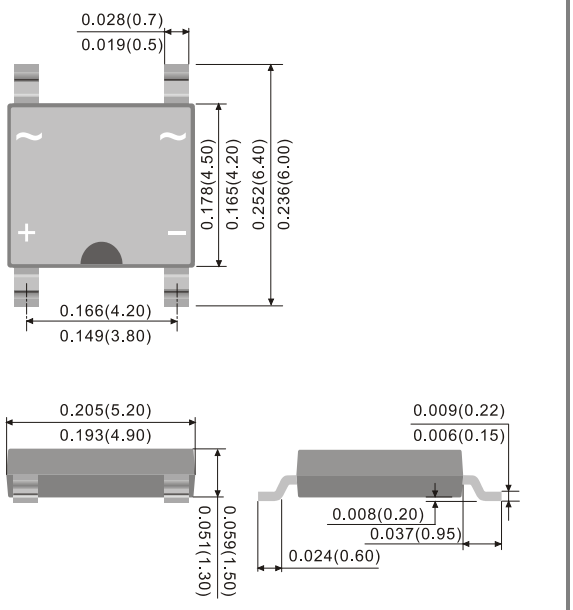
Fig.4 Typical Forward Characteristics

Part No. Packing Code Version

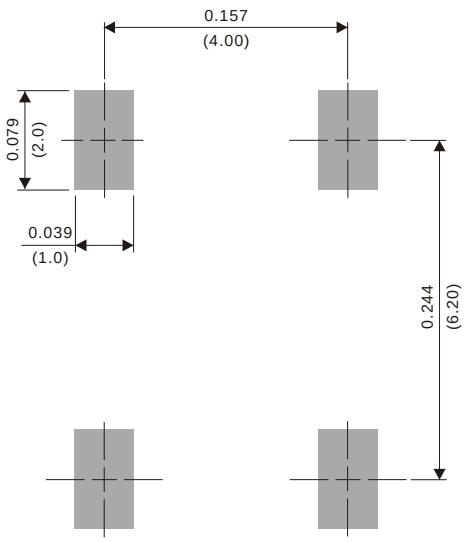
Part No. Packing Code	Package Type	Packing Type	Marking
ABS2MS_R2_00101	ABS	4K pcs / 13” reel	ABS2MS

Packaging Information & Mounting Pad Layout

ABS Dimension — Unit: inch(mm)



ABS Pad Layout — Unit: inch(mm)



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